

1. PolyU 85th Anniversary FCE Chair Professor Distinguished Lecture Series “Online monitoring and vibration/noise control of railway systems: from metro to maglev”, 26 July 2022, The Hong Kong Polytechnic University, Hong Kong;
2. Keynote speech “Transfer learning, graph neural networks, and physics-informed neural networks and their applications in structural health monitoring and vibration control” at the 2nd International Forum of NFEES on Artificial Intelligence & Disaster Prevention and Mitigation, Tianjin, China, 1-2 July 2022;
3. Keynote speech “Physics-informed machine learning and transfer learning for structural health monitoring and vibration control” at the 8th World Conference on Structural Control and Monitoring, Orlando, Florida, USA, 5-8 June 2022;
4. Keynote speech “Online monitoring of rail systems: metro, urban rail, high-speed rail, and maglev” at NSFC-RGC Forum for Young Scholars on Future Transportation Infrastructure Development, Xi’an, China, 11-12 December 2021;
5. Plenary speech “Probabilistic machine learning for interpretation of vibration monitoring data: Applications to railway and maglev systems” at the 11th International Conference on Structural Dynamics, Athens, Greece, 23-26 November 2020;
6. Keynote speech “Online monitoring of high-speed rail, maglev and urban rail transit” at the 1st Forum on Railway Vehicle Operation and Management, Nanchang, China, 13-15 November 2020;
7. Keynote speech “Online monitoring and machine-learning-empowered evaluation of rail transit and maglev systems” at the 2020 International Conference on Sustainable and Innovative Infrastructure, Tainan, Taiwan, 22-24 October 2020;
8. Invited speech “Online monitoring and health assessment of rail transit” at the 3rd China Forum on Health Management Technology for High-Speed Railway, Beijing, China, 21 November 2019.
9. Keynote speech “Rail transit empowered by sensing and artificial intelligence technologies” at the 4th International Conference on Electrical and Information Technologies for Rail Transportation (EITRT2019), Qingdao, China, 25-27 October 2019;
10. Invited speech “Integration of sensing technology and artificial intelligence for smart railways” at the 2019 China International Rail Transit and Equipment Manufacturing Industry Exposition, Changsha and Zhuzhou, China, 17-20 October 2019;
11. Invited speech “Smart railway enabled by innovative sensors and artificial intelligence” at the 2019 Conference on Urban Transportation in the Guangdong-Hong Kong-Macao Greater Bay Area, Shenzhen, China, 26-27 September 2019;
12. Keynote speech “Intelligentizing rail transit by sensing and machine learning” at the 5th International Federation of Automatic Control (IFAC) Symposium on Telematics Applications (TA 2019), Chengdu, China, 25-27 September 2019;
13. Invited speech “A perspective of cooperation on rail transit in the Guangdong-Hong Kong-Macao Greater Bay Area” at the 2019 Conference

- on Guangdong Rail Transit Equipment Industry Development, Jiangmen, China, 29-30 August 2019;
14. Invited public seminar “Structural health monitoring of railway system” at Wuyi University, Jiangmen, China, 29 August 2019 (Coordinator: Prof. Q.X. Wang);
 15. Invited public seminar “Intelligent rail transit infrastructure” at Missouri University of Science and Technology, Rolla, USA, 8 August 2019 (Coordinator: Prof. G.D. Chen);
 16. Keynote speech “Bayesian machine learning for structural health monitoring of rail transit system” at the 9th International Conference on Structural Health Monitoring of Intelligent Infrastructure, St. Louis, USA, 4-7 August 2019;
 17. Invited speech “Monitoring driven by big data and machine learning” at the Asian-Pacific-Euro Summer School on Smart Structures Technology, Rome, Italy, 15 July - 3 August 2019;
 18. Invited speech “Smart materials and sensors: Application to civil structures and high-speed rail” at the 1st International Conference on Smart Materials and Structures, Jingzhou, China, 18-19 May 2019;
 19. Invited speech “Innovative sensors and machine learning algorithms for monitoring-based health management of high-speed railways” at the FCE Translational Research Forum on Sustainable Urban Development in the Greater Bay Area, Hong Kong, 26-27 April 2019;
 20. Invited public seminar “Structural health monitoring of railway system” at the HKIE Engineer Day, The Hong Kong Institution of Engineers (HKIE), Hong Kong, 13 April 2019;
 21. Keynote speech “Bayesian framework for structural health monitoring of civil infrastructure” at the International Conference on Civil, Architecture and Marine Engineering, Osaka, Japan, 22-23 April 2019;
 22. Keynote speech “Structural health monitoring of railway systems using innovative sensing and big data technologies” at the 2nd International Workshop on Structural Health Monitoring and Repair Technology for Railway System in Guangdong-Hong Kong-Macao Greater Bay Area, Dongguan, China, 5 January 2019 (Coordinator: Prof. H.W. Ma);
 23. Invited speech “Recent techniques and methods for structural health monitoring application” at the 1st “Belt and Road” Symposium on Innovative Technologies for Infrastructure, Shanghai, China, 18-19 December 2018 (Coordinator: Prof. Q.L. Zhang);
 24. Keynote speech “Probabilistic machine learning for interpreting real-time monitoring data of railways” at the 2nd Forum on New Technologies for Health Management of High-Speed Rail Infrastructure, Beijing, China, 17-18 November 2018 (Coordinator: Prof. G.T. Zhao);
 25. Invited speech “Data-driven fault diagnosis and prognosis of high-speed rail systems” at the 2018 Forum on Rail Transit Technology: Era of Intelligent and Robust Railway, Tainan, Taiwan, 16 November 2018 (Coordinator: Prof. C.M. Kuo);

26. Keynote speech “Online and real-time monitoring of rail systems: Sensing network and algorithm implementation” at the 2nd Guangdong-Hong Kong-Macau Greater Bay Area Advanced Rail Transit Summit, Shenzhen, China, 30-31 October 2018 (Coordinator: Prof. S.B. Gao);
27. Keynote speech “Sparse Bayesian learning in image signal processing and digital image correction for crack tip field monitoring” at the International Conference on Digital Image Correlation and Noncontact Experimental Mechanics, Hangzhou, China, 15-18 October 2018 (Coordinator: Prof. Y.Z. Luo);
28. Invited speech “Bayesian methods for big data from spatio-temporal monitoring” at the Workshop on Big Data in Civil Engineering: Opportunity, Challenge, Practice and Trend, Shanghai, China, 21-22 September 2018 (Coordinator: Prof. J. Chen);
29. Invited speech “Online real-time monitoring for metro and high-speed rail systems” at the High-end Academic Forum on Smart Transportation and Safety Maintenance, Shenzhen, China, 4-5 September 2018 (Coordinator: Prof. Y.L. Du);
30. Keynote speech “Bayesian source separation in structural health monitoring” at the 9th Cross-Strait Workshop on Structural Monitoring and Vibration Control in Civil Engineering, 19-22 August 2018, Fuzhou, China (Coordinator: Prof. C. Wu);
31. Invited speech “Experimental study of the effect of MR-damper on high-speed train bogie” at the 7th World Conference on Structural Control and Monitoring, Qingdao, China, 22-25 July 2018 (Coordinator: Prof. H. Li);
32. Keynote speech “Bayesian machine learning in structural health monitoring” at the 1st ZJU-HKPU-UIUC-UT-UNIST (ZHITU) Symposium on Advances in Civil Engineering, Hangzhou, China, 12-14 July 2018 (Coordinator: Prof. Y.Z. Luo);
33. Keynote speech “Compressive sensing and sparse Bayesian learning in structural health monitoring: Applications to large-scale bridges and high-speed rail” at the 6th International Symposium on Reliability Engineering and Risk Management, Singapore, 31 May - 1 June 2018 (Coordinator: Prof. S.T. Quek);
34. Invited public seminar “Online monitoring, diagnosis and prognosis of high-speed rail systems” at China Academy of Railway Sciences, Beijing, China, 4 January 2018 (Coordinator: Dr. J.C. Liu);
35. Invited speech “Online and onboard monitoring of high-speed rail systems for enhancing operational safety” at the 2017 International Forum on High-Speed Railway, Changsha, China, 16-19 December 2017 (Coordinator: Prof. C.Y. Chen);
36. Keynote speech “Recent research on developing optical fiber sensors for structural and environmental monitoring” at the 7th National Workshop on Structural Control and Health Monitoring, Wuhan, China, 11-12 November 2017 (Coordinator: Prof. H.P. Zhu);
37. Invited speech “Fiber Bragg grating sensing systems for online monitoring of railway infrastructure” at the 6th International Forum on Opto-electronic Sensor-based Monitoring in Geo-engineering, Nanjing, China, 3-5 November 2017 (Coordinator: Prof. B. Shi);

38. Invited public seminar “SHM-oriented blind source separation and compressive sensing in Bayesian context” at National Taiwan University Taipei, Taiwan, 26 October 2017 (Coordinator: Prof. L.J. Leu);
39. Keynote speech “Structural health monitoring of infrastructure systems” at the 10th Workshop on Nondestructive Evaluation of Civil Infrastructural System, Taipei, Taiwan, 26-27 October 2017 (Coordinator: Prof. C.C. Cheng);
40. Invited public seminar “Recent research and practice of structural health monitoring (SHM)” at China University of Petroleum, Qingdao, China, 28 September 2017 (Coordinator: Prof. Y.F. Geng);
41. Invited speech “Research activities at National Engineering Research Centre on Rail Transit Electrification and Automation (Hong Kong Branch)” at the 1st Workshop of UIC High Speed Rail Academic Alliance, London, UK, 21-22 September 2017 (Coordinator: Prof. R.A. Smith);
42. Keynote speech “Bayesian approaches for structural condition diagnosis and prognosis” at the 8th Cross-Strait Workshop on Structural Monitoring and Vibration Control in Civil Engineering, Hangzhou, China, 21-26 August 2017 (Coordinator: Prof. Y.Z. Luo);
43. Invited public seminar “Theoretical research and practice of structural health monitoring (SHM)” at Zhejiang University of Technology, Hangzhou, China, 13 January 2017 (Coordinator: Prof. J. Guo);
44. Invited public seminar “Structural health monitoring: State-of-the-art theoretical research and multidisciplinary applications” at Zhejiang University, Hangzhou, China, 13 January 2017 (Coordinator: Prof. Y.Z. Luo);
45. Invited speech “Layer-by-layer assembly of multi-walled carbon nanotubes on long-period grating sensors for marine environmental monitoring” at the International Workshop on Seawater Sea-sand Concrete (SSC) Structures Reinforced with FRP Composites, Hong Kong, 13 December 2016 (Coordinator: Prof. J.G. Teng);
46. Invited speech “Online and on-board monitoring of high speed rail systems for enhancing operation safety” at the Workshop on High-speed Rail Operation for Safety and Reliability, Hong Kong, 25 November 2016 (Coordinator: Prof. K.L. Tsui);
47. Keynote speech “Vibration of high speed trains: Monitoring and control” at the International Conference on Theory and Application of Random Vibration, Fuzhou, China, 5-6 November 2016 (Coordinator: Prof. S.F. Jiang);
48. Keynote speech “Structural health monitoring of high speed rail: Recent progress” at the 1st International Workshop on Structural Health Monitoring for Railway System, Qingdao, China, 12-14 October 2016 (Coordinator: Prof. F.K. Chang);
49. Invited plenary lecture “Smart rail technology: Beyond benefiting railway systems” at the RISUD Annual International Symposium 2016 – Smart Cities, Hong Kong, 23-24 August 2016 (Coordinator: Prof. J.G. Teng);

50. Invited speech “Online monitoring of high-speed rail systems” at the 5th International Conference on Smart and Multifunctional Materials, Devices, Structures - Symposium G: Embodying Intelligence in Structures and Integrated Systems, Perugia, Italy, 5-10 June 2016 (Coordinator: Prof. F. Casciati);
51. Invited speech “Sensing systems and diagnosis algorithms for online monitoring of high speed railways” at the Forum on New Monitoring Techniques for High Speed Railway Construction and Operation Safety, Chengdu, China, 21-22 April 2016 (Coordinator: Prof. P. Wang);
52. Invited speech “Structural health monitoring and beyond: from diagnosis to prognosis” at the 2nd International Symposium on Life-Cycle Performance of Bridges and Structures, Changsha, China, 18-20 December 2015 (Coordinator: Prof. C.S. Cai);
53. Invited speech “Kalman filter based estimation of neutral-axis position of bridge deck sections” at the 2nd International Conference on Performance-based and Lifecycle Structural Engineering, Brisbane, Australia, 9-11 December 2015 (Coordinator: Prof. T.H.T. Chan);
54. Keynote speech “Health monitoring technologies for high-speed railway” at the 9th Workshop on Nondestructive Evaluation of Civil Infrastructural System, Taipei, Taiwan, 29-30 October 2015 (Coordinator: Prof. C.C. Cheng);
55. Keynote speech “Structural health monitoring and beyond: a Bayesian approach towards condition prognosis” at the 1st Computational Mechanics Conference in Taiwan, Taipei, Taiwan, 22-23 October 2015 (Coordinator: Prof. C.C. Lin);
56. Keynote speech “SHM-enriched high-speed rail systems” at the 10th International Workshop on Structural Health Monitoring, Stanford, California, USA, 1-3 September 2015 (Coordinator: Prof. F.K. Chang);
57. Invited speech “Reconstructing wind pressure measurement data by neural network technique” at the 7th International Conference on Structural Health Monitoring of Intelligent Infrastructure, Turin/Torino, Italy, 1-3 July 2015 (Coordinator: Prof. T.H. Yi);
58. Invited speech “Correlation between displacement response and wind speed for an instrumented long-span bridge” at the 7th International Conference on Structural Health Monitoring of Intelligent Infrastructure, Turin/Torino, Italy, 1-3 July 2015 (Coordinator: Prof. Y. Lei);
59. Invited speech “Impact force identification of ship-bridge collision using smart piezoelectric sensors” at the 5th Asia-Pacific Workshop on Structural Health Monitoring, Shenzhen, China, 4-5 December 2014 (Coordinator: Prof. H. Li);
60. Invited speech “A fiber Bragg grating sensing network for structural integrity monitoring of underground water pipes: analysis of monitoring data” at the 5th International Forum on Opto-electronic Sensor-based Monitoring in Geo-engineering, Nanjing, China, 13-14 October 2014 (Coordinator: Prof. B. Shi);
61. Invited seminar “The smart city infrastructure: more efficient and more sustainable” at the University-Government-Industry Forum on New Ways of Development for New Towns in Hong Kong, The Hong Kong Polytechnic University, Hong Kong, 26 August 2014 (Coordinator:

Prof. J.G. Teng);

62. Invited speech “Condition assessment of bridge deck using SHM data and reliability analysis” at the 2014 International Conference on Advances in Structural Monitoring and Maintenance, Busan, Korea, 24-28 August 2014 (Coordinator: Prof. J.T. Kim);
63. Invited speech “A semi-active rail vehicle suspension incorporating negative stiffness emulated by magnetorheological (MR) damper” at the 6th World Conference on Structural Control and Monitoring, Barcelona, Spain, 15-17 July 2014 (Coordinator: Prof. J. Rodellar);
64. Semi-plenary keynote speech “Structural health monitoring of cable-supported bridges based on vibration measurements” at the 9th International Conference on Structural Dynamics, Porto, Portugal, 30 June - 2 July 2014 (Coordinator: Prof. A. Cunha);
65. Invited speech “FBG-based dynamic strain monitoring of bogies in high-speed trains during in-service operation for fatigue assessment” at the International Workshop on Nondestructive Testing in Railway Applications, Chengdu, China, 21-22 June 2014 (Coordinator: Prof. X.R. Gao);
66. Keynote speech “Structural health monitoring for infrastructure systems: applications to civil structures, pipelines, and high-speed railways” at the 3rd International Conference on Civil Engineering and Building Materials, Hong Kong, 7-8 December 2013 (Coordinator: Prof. D. Packer);
67. Invited speech “Monitoring of structural and durability performance of reinforced concrete bridges in marine environment” at the International Workshop on Life-Cycle Performance of Concrete Structures, Hong Kong, 15 June 2013 (Coordinator: Prof. J.G. Teng);
68. Invited public seminar “Earthquake- and typhoon-induced response monitoring of the Canton Tower of 600 m” at Lanzhou University of Technology, Lanzhou, China, 5 June 2013 (Coordinator: Prof. Y.F. Du);
69. Invited public seminar “Health monitoring of bridges, pipelines, wind turbines, and high-speed railways” at Lanzhou University of Technology, Lanzhou, China, 5 June 2013 (Coordinator: Prof. Y.F. Du);
70. Keynote speech “Seismic response monitoring and online parameter identification of structures equipped with structural health monitoring system” at the International Conference on Earthquake Engineering - 50 Years of Skopje Earthquake and European Earthquake Engineering, Skopje, Macedonia, 29-31 May 2013 (Coordinator: Prof. M. Garevski);
71. Keynote speech “Structural health monitoring of large-scale structures: from diagnostics to prognostics” at the 2013 SPIE Smart Structures/NDE Conference on Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems, San Diego, California, USA, 10-14 March 2013 (Coordinator: Prof. J. Lynch);
72. Invited speech “Application of mega-structure diagnostic and prognostic system on Canton Tower: a skyscraper of 600 m high” at the 4th

- “Quarterly Gathering with Star Speakers” organized by Federation of PolyU Alumni Associations, Hong Kong, 12 December 2012 (Coordinator: Prof. J. Fan);
73. Keynote speech “Health monitoring of railway infrastructure: from foundations to rail tracks” at the International Symposium on Geotechnical Engineering for High-speed Transportation Infrastructure, Hangzhou, China, 26-28 October 2012 (Coordinator: Prof. Y.M. Chen);
 74. Invited public seminar “Health monitoring and vibration control of high-speed rail systems” at The Hong Kong Polytechnic University, Hong Kong, 11 August 2012 (Coordinator: Prof. Q.P. Shen);
 75. Keynote speech “Health monitoring of long-span bridges and high-rise structures” at the 13th International Conference on Inspection, Appraisal, Repairs and Maintenance of Structures, Wuyishan, China, 27-29 July 2012 (Coordinator: Prof. Y.Z. Zhuang);
 76. Invited public seminar “Structural health monitoring: from civil structures to high-speed railways” at Fuzhou University, Fuzhou, China, 27 July 2012 (Coordinator: Prof. L.H. Zou);
 77. Invited public seminar “Safety monitoring of high speed rail systems” at Sun Yat-sen University, Guangzhou, China, 9 July 2012 (Coordinator: Prof. J.M. Zhan);
 78. Invited speech “Structural health monitoring of a tall building with huge floating platform” at the 4th International Conference on Smart Materials, Structures and Systems - Symposium G: Embodying Intelligence in Structures and Integrated Systems, 10-15 June 2012, Montecatini Terme, Italy (Coordinator: Prof. F. Casciati);
 79. Invited speech “Performance monitoring and vibration control of high-speed rail systems” at the 1st “Quarterly Gathering with Star Speakers” organized by Federation of PolyU Alumni Associations, Hong Kong, 14 March 2012 (Coordinator: Prof. J. Fan);
 80. Keynote speech “Structural health monitoring of supertall structures: an engineering paradigm and technology showcase” at the 2011 International Symposium on Innovation and Sustainability of Structures in Civil Engineering, Xiamen, China, 28-30 October 2011 (Coordinator: Prof. Y. Lei);
 81. Keynote speech “Structural vibration monitoring under ambient and extreme excitations” at the 5th International Symposium on Environmental Vibration, Chengdu, China, 20-22 October 2011 (Chair: Prof. H. Takemiya).
 82. Invited speech “Vibration control of cable-stayed bridges” at the 2011 International Forum on Bridge Engineering, Taipei, Taiwan, 8-9 September 2011 (Chair: Prof. C.Y. Wang);
 83. Invited speech “Health monitoring and vibration control of mega-structures” at the 2nd Cross-Strait Summer School on Structural Monitoring

- and Vibration Control in Civil Engineering, Hong Kong, 16-17 July 2011 (Chair: Dr. X.J. Jing);
84. Invited speech “Real-time safety monitoring and smart vibration control of high-speed trains” at the International Forum on Welding and Fatigue Reliability for Modern Rail Transportation Equipment, Dalian, China, 16-17 July 2011 (Chair: Prof. R.M. Ren);
 85. Invited public seminar “Structural health monitoring of Canton Tower” at National Center for Research on Earthquake Engineering, Taipei, Taiwan, 10 June 2011 (Coordinator: Prof. K.C. Chang);
 86. Invited speech “Sensing solutions for assessing and monitoring mega-structures” at the International Workshop on Structural Health Monitoring and Damage Assessment, Taipei, Taiwan, 9-10 June 2011 (Chair: Prof. C.C. Lin);
 87. Invited public seminar “Fiber Bragg grating (FBG) sensing technology and its applications” at Dalian Jiaotong University, Dalian, China, 28 March 2011 (Coordinator: Prof. X.Z. Mi);
 88. Invited public seminar “Structural health monitoring of long-span bridges and high-rise buildings” at Ningbo Institute of Technology, Zhejiang University, Ningbo, China, 15 December 2010 (Coordinator: Prof. B.N. Sun);
 89. Invited speech “Integration of structural health monitoring and bridge in-operation maintenance: Hong Kong practice” at the International Workshop on Durability Technology for Large-Scale Bridges, Qingdao, China, 7-9 September 2010 (Chair: Mr. W.J. Liu);
 90. Invited speech “Guangzhou New TV Tower: Integration of structural health monitoring, vibration control, and renewable energy technologies” at the 1st Cross-Strait Workshop on Monitoring and Control in Civil Engineering, Hangzhou, China, 18-22 August 2010 (Chair: Prof. J.M. Ko);
 91. Keynote speech “Structural health monitoring for civil infrastructure systems: from research to application” at the 5th European Workshop on Structural Health Monitoring, Sorrento, Naples, Italy, 29 June - 2 July 2010 (Coordinator: Prof. F. Casciati);
 92. CITRIS Distinguished Lecture on Intelligent Infrastructure Systems “Structural health monitoring: research, applications, and integration with renewable energy technologies” at Center for Information Technology Research in the Interest of Society, UC Berkeley, California, USA, 26 April 2010 (Coordinator: Prof. S. Glaser);
 93. Invited public seminar “Structural health monitoring: engineering paradigms and technology showcases” at T.Y. Lin International Engineering Consulting (China) Co., Ltd., Chongqing, China, 8 March 2010 (Coordinator: Dr. D.L. Yin);
 94. Invited public seminar “Health monitoring and safety evaluation of large-scale structures” at T.Y. Lin International Engineering Consulting (China) Co., Ltd., Chongqing, China, 8 March 2010 (Coordinator: Dr. D.L. Yin);
 95. Invited speech “Monitoring-based fatigue reliability assessment of steel bridges: analysis, experiment, and application” at the 6th Workshop

- on Nondestructive Evaluation of Civil Infrastructural System, Taipei, Taiwan, 29 - 30 October 2009 (Coordinator: Prof. C.Y. Wang);
96. Invited speech “Micro-vibration suppression of equipment supported on a sandwich beam incorporating magneto-rheological elastomer (MRE) core” at the 4th International Symposium on Environmental Vibration: Prediction, Monitoring and Evaluation, Beijing, China, 28-30 October 2009 (Coordinator: Prof. H. Xia);
 97. Invited speech “Structural health monitoring of the Guangzhou New TV Tower” at the Mini Symposium on Lessons Learned from Full-scale Structural Health Monitoring Projects, Northeastern University, Boston, Massachusetts, USA, 1 August 2009 (Chair: Prof. B.F. Spencer);
 98. Keynote speech “Health checks through landmark bridges to sky-high structures” at the 5th International Workshop on Advanced Smart Materials and Smart Structures Technology, Boston, Massachusetts, USA, 29-31 July 2009 (Chair: Prof. M.L. Wang);
 99. Invited public seminar “Development and implementation of structural health monitoring (SHM) system for Guangzhou New TV Tower” at the Ove Arup & Partners Hong Kong Ltd., Hong Kong, 17 November 2008 (Coordinator: Dr. Ricky Y.C. Tsui);
 100. Invited panelist speech “A benchmark problem for structural health monitoring of high-rise slender structures” at the Meeting of ANCRiSST 2008, Waseda University, Tokyo, Japan, 25 June 2008 (Chair: Prof. M.L. Wang);
 101. Invited public seminar “Development of a structural health monitoring system for Guangzhou New TV Tower: design and implementation” at Department of Civil Engineering, The University of Tokyo, Tokyo, Japan, 25 June 2008 (Coordinator: Prof. Y. Fujino);
 102. Invited speech “Technology innovation in developing the structural health monitoring system for Guangzhou New TV Tower” at the International Symposium on Structural Control and Health Monitoring, Taichung, Taiwan, 10-11 January 2008 (Coordinator: Prof. C.C. Lin);
 103. Invited speech “Parametric oscillation of cables in cable-stayed bridges under deck-motion excitations” at the 3rd International Symposium on Environmental Vibrations: Prediction, Monitoring, Mitigating, and Evaluation, Taipei, Taiwan, 28-30 November 2007 (Coordinator: Prof. Y.B. Yang);
 104. Invited speech “Intelligent structural health monitoring: Hong Kong experience and current worldwide status” at the 5th National Postgraduate Conference of Civil Engineering, Changsha, China, 21-22 July 2007 (Coordinator: Prof. Z.Q. Chen);
 105. Invited speech “Development of structural health monitoring system for a high-rise TV tower” at the 5th Workshop on Nondestructive Evaluation of Civil Infrastructural System, Taipei, Taiwan, 31 May - 1 June 2007 (Coordinator: Prof. C.Y. Wang);
 106. Invited speech “Research on structural health monitoring and condition assessment of an instrumented cable-stayed bridge” at the 5th Workshop on Nondestructive Evaluation of Civil Infrastructural System, Taipei, Taiwan, 31 May - 1 June 2007 (Coordinator: Prof. C.Y. Wang);

107. Invited speech “Structural health monitoring and condition assessment of cable-supported bridges” at the International Workshop on Structural Health Monitoring and Damage Assessment, Taichung, Taiwan, 14-15 December 2006 (Coordinator: Prof. C.C. Lin);
108. Invited panelist speech “Works toward future directions of structural health monitoring: bridge structures” at the Meeting of ASCE Engineering Mechanics Division Technical Committee on Structural Health Monitoring and Control, San Diego, USA, 12 July 2006 (Coordinator: Prof. S. Nagarajaiah);
109. Invited speech “Modeling of temperature-frequency correlation using long-term monitoring data: methods and comparison” at the 2nd International Conference on Structural Health Monitoring and Intelligent Infrastructure, Shenzhen, China, 16-18 November 2005 (Chair: Prof. Y.Q. Xiao);
110. Invited public seminar “Processing and management of on-line monitoring data” at Center for Bridge Engineering Research, National Central University, Chungli, Taiwan, 30 June 2004 (Coordinator: Prof. C.Y. Wang);
111. Invited public seminar “Structural health assessment based on long-term monitoring” at Center for Bridge Engineering Research, National Central University, Chungli, Taiwan, 30 June 2004 (Coordinator: Prof. C.Y. Wang);
112. Invited public seminar “Design of long-term structural health monitoring systems for cable-supported bridges” at Center for Bridge Engineering Research, National Central University, Chungli, Taiwan, 29 June 2004 (Coordinator: Prof. C.Y. Wang);
113. Invited public seminar “Bridge monitoring systems in Hong Kong” at Center for Bridge Engineering Research, National Central University, Chungli, Taiwan, 29 June 2004 (Coordinator: Prof. C.Y. Wang);
114. Invited public seminar “Structural health monitoring of large-scale bridges” at Department of Civil Engineering, National Chiao-Tung University, Hsinchu, Taiwan, 12 March 2004 (Coordinator: Prof. Y.P. Wang);
115. Invited public seminar “Smart control of rain-wind-induced cable vibration in cable-stayed bridges” at Department of Civil Engineering, National Chiao-Tung University, Hsinchu, Taiwan, 12 March 2004 (Coordinator: Prof. Y.P. Wang);
116. Invited public seminar “Magneto-rheological tuned liquid column dampers (MR-TLCDs) for vibration mitigation of tall buildings” at Department of Civil Engineering, National Chiao-Tung University, Hsinchu, Taiwan, 11 March 2004 (Coordinator: Prof. Y.P. Wang);
117. Keynote speech “Environmental vibration in cable-supported bridges” at the International Seminar on Environmental Vibration: Prediction, Monitoring and Evaluation, Hangzhou, China, 16-18 October 2003 (Chair: Prof. Y.M. Chen);
118. Invited public seminar “Structural health monitoring systems for large-scale bridges” at ISIS Canada, University of Manitoba, Winnipeg, Manitoba, Canada, 2 August 2003 (Coordinator: Prof. A.A. Mufti);

119. Invited public seminar “Implementation of magneto-rheological dampers to cable-stayed bridges for wind-rain-induced vibration control” at Department of Civil Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Korea, 26 August 2002 (Coordinator: Prof. C.B. Yun);
120. Invited public seminar “Health monitoring and vibration control of cable-supported bridges” at the Department of Civil and Materials Engineering, University of Illinois at Chicago, Illinois, USA, 16 March 2001 (Coordinator: Prof. M.L. Wang);
121. Invited public seminar “Vibration-based structural health monitoring of cable-supported bridges” at the Department of Civil Engineering, Washington University, St. Louis, Missouri, USA, 20 October 2000 (Coordinator: Prof. S.J. Dyke);
122. Six-hour public seminar “Structural health monitoring of long-span cable-supported bridges using vibration measurements” at the Department of Civil Engineering and Geological Sciences, University of Notre Dame, Indiana, USA, 2-6 October 2000 (Coordinator: Prof. B.F. Spencer);
123. Invited speech “Vibration-based damage detection study of three cable-supported bridges in Hong Kong” at the International Conference on Advanced Problem in Vibration Theory and Application, Xi’an, China, 19-22 June 2000 (Chair: Prof. T. Hayashikawa).